

Active Recombinant Pig IFN γ protein, His-tagged

Cat. No. IFN γ -3366P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Pig IFN γ protein(P17803)(21~166 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Pig
Source	HEK293
ProteinLength	21-166 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	IFN-g is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFN γ in the immune system stems in part from its ability to inhibit viral replication directly and most importantly from its immunostimulatory and immunomodulatory effects. IFN-gamma dimers bind to IFN-gamma RI (alpha subunits) which then interact with IFN-gamma RII (beta subunits) to form the functional receptor complex of two alpha and two beta subunits. Inclusion of IFN-gamma RII increases the binding affinity for ligand and the efficiency of signal transduction. A functional binding ELISA assay was conducted to detect the interaction of recombinant pig IFN-g and recombinant human IFN γ R1. Briefly, IFN-g was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to IFN γ R1-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IFN-g pAb, then

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aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant pig IFN-g and recombinant human IFNgR1 was shown, the EC50 for this effect is 0.38 ug/mL.

Molecular Mass	17.7kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IFNG interferon-gamma [<i>Sus scrofa</i>]
Official Symbol	IFNg
Synonyms	IFNG; interferon-gamma; interferon gamma; IFN-gamma;
Gene ID	396991
mRNA Refseq	NM_213948

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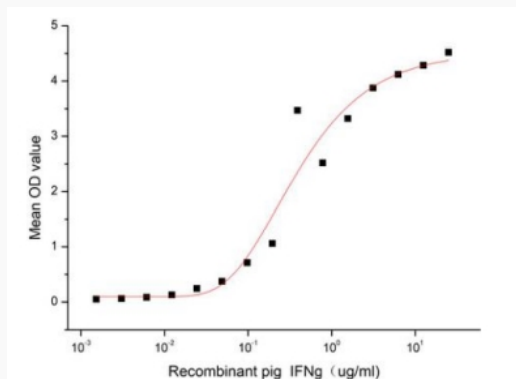
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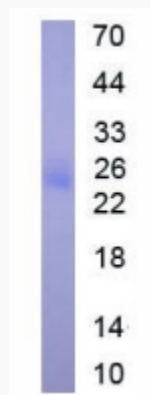
Protein Refseq

NP_999113

Activity



SDS-PAGE



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